

Monday 10 May 2021

Content only available at main conference in Melbourne

Tuesday *11 May 2021*

VENUE	EDEN PARK PLAYERS LOUNGE	EDEN PARK WEST LOUNGE F2 *	EDEN PARK WEST LOUNGE F3 *
08:00 - 09:00		Registration and coffee	
09:00 - 10:30	Conference Opening a	nd Panel Discussion - The Importance of Kaitiakitanga to	the Success of Projects
10:30 - 11:00		Coffee and networking	
11:00 - 12:30		Opening and Plenary Session from Australia	
12:30 - 13:00		Lunch	
13:00 - 14:30	Challenges for Ground Support & Permanent Lining (1): WestConnex Project, Sydney	Innovative Construction (1): Emerging Technology	Future Proofing through project development & delivery
14:30 - 15:30		Coffee and networking	
15:30 - 17:00	Improvements in tunnel ventilation & fire life safety (1)	Challenges for Ground Support & Permanent Lining (2): Tunneling with low ground cover	Major Projects (1): TBM Tunnels
17:00 - 17:30		Coffee and networking	
17:30 - 19:00	Young Members Technical Session	Environmental assessment, stakeholder engagement, community impact & placemaking	Innovative Construction (2): Mined Tunnels
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Wednesday 12 May 2021

VENUE	EDEN PARK PLAYERS LOUNGE	EDEN PARK WEST LOUNGE F2 *	EDEN PARK WEST LOUNGE F3 *
09:00 - 10:30	Ind	ustry Workshop - What's Next for New Zealand Tunnellin	ıg?
10:30 - 11:00		Coffee and networking	
11:00 - 12:30		Plenary Session With Australia	
12:30 - 13:00		Lunch	
13:00 - 14:30	World best practice in health, safety, risk, training & education	Major Projects (2): Case Studies	Tunnelling the last 50 years
14:30 - 15:30		Coffee and networking	
15:30 - 17:00	Challenges for Ground Support & Permanent Lining (3): TBM Tunnels	Major Projects (3): Ground Control Deformation & Settlement	Growth of digital engineering, instrumentation & tunnel data systems (1): Session 1
17:00 - 17:30		Coffee and networking	
17:30 - 19:00	Innovative Construction (3): TBM Tunnels	Challenges for Ground Support & Permanent Lining (4): Hawkesbury Sandstone	Sustainable tunnel operations, maintenance & rehabilitation
19:00 - 22:00		ATS 2020+1 Conference Dinner @ Eden Park	

* All New Zealand presenters will be in West Lounge F3. Conference streams will be switched between West Lounge F2 and West Lounge F3 for NZ presenters.

Thursday *13 May 2021*

Presentations and proceedings available digitally after the conference

Friday 14 May 2021

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		EDEN PARK PLAYERS LOUNGE
		Challenges for Ground Support and Permanent Lining (1): WestConnex Project, Sydney
		Hanging linings - a new approach to permanent lining design
		Joshua Barry Aurecon Austral
	13:00 - 14:30	Design and construction of the M4 East caverns
Tuesday 11 May 2021		Andrew de Ambrosis PSM Austral
		Design and construction of a very large span and shallow ramp tunnel using pre-activated steel sets
		Shijie Liu Jacobs Austral
		Observational Approach to Water Resistant Lining for a Major Urban Road Tunnel
		Mark Trim McMillen Jacobs Associates Austral
		Improvements in tunnel ventilation and fire life safety (1): Fire Life Safety
		De-risking the propensity of concrete spalling during fire in tunnel applications Cristian Maluk University of QLD Austral
Tuesday 11 May 2021	15:30 - 17:00	The Evolution of Deluge System Design, Delivery, Testing and Operation in Australian Road Tunnels Nigel Casey TfNSW Austral
		Design of Metro Tunnel Project tunnel linings for fire testing
		Maurice Guerrieri Victoria University Austral
		Turning tunnel smoke control on its head in Australia
		Dr Conrad Stacey and Dr Michael Beyer Stacey Agnew Austral
		Young Members Technical Session
		Design and Construction of Pedestrian Access Tunnels below an Existing Operational Metro Tunnels (David Sugden Paper)
		G T, Senthilnath GHD Austral
		SFRC Segmental Lining Code of Practice – review of international guideline and application to Australian Standards
Tuesday 11 May 2021	17:30 - 19:00	Renee Shi WSP Austral
		Recent observations from the design and construction of large span tunnel in Sydney
		Aaron Lippett Aurecon Austral
		Metro Tunnel - CBD South Station Cavern Construction Daniel Hamilton CYP Austral
		Epping Main Sewer Pipejack: Challenges and Resolutions
		Jiang Aizezi Downer Austral
		World best practice in health, safety, risk, training and education
		Best practice in controlling respirable crystalline silica in infrastructure Kate Cole Sydney Metro Austral
		The allocation of risk for tunneling projects: has progress been achieved in 50 years?
Wednesday 12 May 2021	13:00 - 14:30	Charles MacDonald MacDonald Project Consulting Pty Ltd Austral
		De-risking temporary works Barnabas liko Golder Austral
		Tunnelling and Underground Risk in Hydropower – a Lender's Technical Advisor's Perspective
		Andrew Noble WSP Austral
		Challenges for Ground Support and Permanent Lining (3): TBM Tunnels
		Practical Considerations for Design of Large Diameter Segmental Linings
		Harding, Chen, Sadek Jacobs Austral
		Bored tunnel design for CRL Auckland - design challenges
Wednesday 12 May 2021	15:30 - 17:00	Ritesh Mahajan Link Alliance Austral
		Experimental study on the behavior of precast macro-synthetic FRC tunnel segments during temporary loading conditions
		Todd Clarke BarChip Austral
		Numerical modelling for temporary loading during the advance of a double shield TBM in rock
		Vincenza Floria Geodata Austral
		Innovative Construction (3): TBM Tunnels
		Supersize tunnel boring machine diameters for benchmarking infrastructure systems
		Thorsten Gartner Herrenknecht Austral
Wednesday 12 May 2021	17:30 - 19:00	Diverting the North Yarra main sewer - making way for the West Gate Tunnel CPBJH Austral
	021 17:30 - 19:00	First Flying TBM Launch performed in AUSTRALASIA
		Andreas Lehr CPB Austral
		TBM Tool wear : Interactive Product of Rock Abrasiveness, Metal Properties, & Operating Environments
		Don Del Nero Bamford Rock Testing Services Austral

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ATS 2020+1 NZ Hub Program

	EDEN PARK WEST LOUNGE F2	EDEN PARK WEST LOUNGE F3
	Innovative Construction (1): Emerging Technology	Future Proofing through project development & delivery
	Increasing acceptance of chemical anchors in tunneling projects based on advanced qualification and installation methods	Karangahape Road Station - future proofed tunnels
ia	Barry Kaknics Hilti (Aust.) Pty Ltd Australia	Katerina Howard Link Alliar
ia	New technologies in concrete spraying for tunnel construction Ben O'Connor Normet Australia	GBR as risk management tool in the procurement of major U/G infrastructure projects Bani Mukherjee Geodata Engir
	Underground Waterproofing Design and Installation – Case Studies from recent projects	Driver Needs and Behaviour in NSW Road Tunnels
ia	Victor Ngo Bluey Technologies Australia	Nigel Casey
	Development of the Geotechnical Baseline Report for the Snowy 2.0 Pump Storage Project	Cross passage design and construction solutions on Metro Tunnelling Projects in Major Wor
ia	Alexandre Gomes SMEC Australia	Jim Benson W
	Challenges for Ground Support and Permanent Lining (2): Tunnelling with Low Ground Cover	Major Projects (1): TBM Tunnels
	Hurstbridge Line Upgrade - Stage 1 design and construction of Darebin Street underpass	SFRC linings of mega TBM tunnels
ia	Ben Coombes Noma Consulting Australia	Shu Fan Chau Aurec
ia	Pipe roofs for shallow tunnelling in urban environment Erik Van Der Horst GHD Australia	An Innovative Tool Box for Double Shield TBM Navigation Matt Jarvis VMT Tunnel Gu
ia	Probabilistic design in tunnels: case study for a shallow tunnel in an urban area	Tunnelling in Perth: the experience of the Forrestfield - Airport Link project
ia	Guillermo Andres Peman GHD Australia	Lorenzo Facibeni Geodata Engineering, Salini,
ia	Long and deep hard rock TBM tunnelling under the Alps - Brenner Base Tunnel, Italian section Paolo Pediconi Ghella Australia	Design of tapered caverns in rail tunnels - challenges and outweighing benefits Wataru Okada Link Alliar
-	Environmental assessment, stakeholder engagement and community impact and placemaking	Innovative Construction (2): Mined Tunnels
	Underground rail corridor protection - assessment methodology with case studies	Auckland City Rail Link Contract C3 - Tender Technical Innovations
ia	Jiping Pan WSP Australia	Gilles Cachia Link Alliar
	Spatial complexities of groundwater assessments for long tunnel projects	Tunnel advance rates - less is more
ia	Daniel Hodges Golder Australia	Aikaterini Monemvasioti Kappos
	Environmental assessment of ground-borne noise and vibration from tunnelling infrastructure projects	Key challenges on cross passage design and construction
ia	Mattia Tabacchi Renzo Tonin & Associates Australia	Luke Lu A
ia	Maribyrnong River Main Sewer Augmentation Tanya Elliott Jacobs Australia	Shotcrete specification for road tunnels in New South Wales Phil Clark
ia		
	Major Projects (2): Case Studies	Tunnelling the last 50 years
ia	Thomson Yarra to Western Harbour tunnel - a personal fifty-year journey Doug Maconochie WSP Australia	Competitive alliance procurement process for a major underground railway Tom Ireland Aurec
	Planning and feasibility design of the Inland Rail Toowoomba Tunnels	The 50 year legacy of the Melbourne Underground Rail Loop
ia	Tony Peglas Aurecon Australia	Anthony Bennett A
ia	Underground station design development - A case study - Cross River Rail Joseph Donohue Arup Australia	The development of active permanent support for infrastructure tunnels in the Sydney Region Philip Pells Pells Con
•-	Recent experiences in the design of deep tunnels in Sydney	
ia	Francisco Cortes SMEC Australia Major Projects (3): Control of Ground Deformation and Settlement	Growth of digital engineering, instrumentation and tunnel data systems (1)
ia	Assessment of settlement impacts for the Sydney Metro City & Southwest Tunnel and Station excavations Andrew Merritt PSM Australia	Excavating below the Chief Post Office (CPO) at Britomart station for Auckland's City Rail Lir Bill Newns NovoCons
ia	Sydney Metro Martin Place Station - managing predicted effects on existing tunnels with risk-based design Megan Packer PSM Australia	Integrated BIM approach for New Zealand's largest railway project Brice Gaudin Link Alliar
	Real-time monitoring of the Metro Tunnel trinocular cavern beneath Melbourne CBD during excavation	Integration of 3D geological modelling and geotechnical investigation planning for tunnel in
ia	C. Fagan, S. Auvergne Sixense, CYP Australia	projects Kris Jelly-Butterworth
	Monitoring the 3D distortion of Glass-fibre Reinforced Plastic Jacking Pipes using fibre optic instrumentation	Tunnelling under the Chief Post Office Building
ia	Mahdi M Disfani Melbourne School of Engineering Australia	Michael Chung Aurec
	Challenges for Ground Support and Permanent Lining (4): Hawkesbury Sandstone	Sustainable tunnel operations, maintenance and rehabilitation
	Bolting of wide spans in Hawkesbury Sandstone	A review of the refurbishment of the Terrace and Mt Victoria Tunnels, Wellington, New Zeal
ia	Robert Bertuzzi PSM Australia	Terry McGavin New Zealand Transport Ager A rational approach to the assessment and management of over tunnel development
ia	Iris Yim Aurecon Australia	Michael Salcher
	Utob stars to me line in Code and a desire and something area study	A robust approach to management of cracking in plain concrete tunnel linings
ia I	High stress tunneling in Sydney - a design and construction case study Thomas Roper University Of Queensland / Lendlease Australia	
ia	Recent Experiences from Design and Certification of Major Infrastructure Projects in Sydney	Use of Driving Simulation to Assess Driver Experience and Safety of Tunnel Aesthetic Design

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